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(71) Applicant (*for all designated States except US*): KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): DE HOOG, Thomas, Jan [NL/FR]; Société Civile SPID, 156 Boulevard Haussmann, F-75008 Paris (FR).

(74) Agent: LANDOUSY, Christian; Société Civile SPID, 156 Boulevard Haussmann, F-75008 Paris (FR).

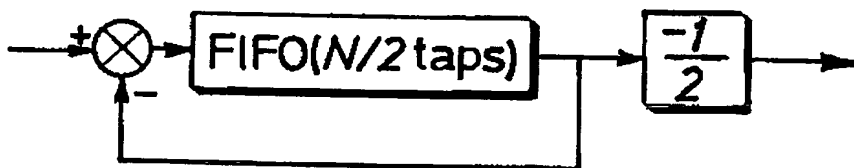
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: REPETITIVE CONTROLLER AND DRIVE SERVO SYSTEM INCLUDING IT



(57) Abstract: The invention generally relates to the field of repetitive controllers for suppressing periodic signals with half-wave symmetry and, more specifically, to a repetitive controller having the form of a memory loop fed with a periodic signal of period NT and in which the memory size includes

N/2 memory elements, the feedback connection is negative and a factor of $-\frac{1}{2}$ is provided at the output of the memory loop. Such a repetitive controller may be used for instance in the disturbance compensation module of a drive servo system in a recording and reproducing apparatus including a head for recording data on a recording medium.

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INTERNATIONAL SEARCH REPORT

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G05B G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2001/043427 A1 (CHEN YANGQUAN ET AL) 22 November 2001 (2001-11-22) column 3, line 54 - column 4, line 31; figure 5 column 6, line 18 - line 39	1-2
A	US 5 065 263 A (WAKABAYASHI NORIAKI ET AL) 12 November 1991 (1991-11-12) column 6, line 44 - line 68	1-2
A	US 5 784 272 A (SCHOOTSTRA GERRIT ET AL) 21 July 1998 (1998-07-21) claims 1,2	1
A	US 2001/005342 A1 (AKKERMANS ANTONIUS H M ET AL) 28 June 2001 (2001-06-28) column 2, line 25 - line 62; figure 2	1,2

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Kelperis, K

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